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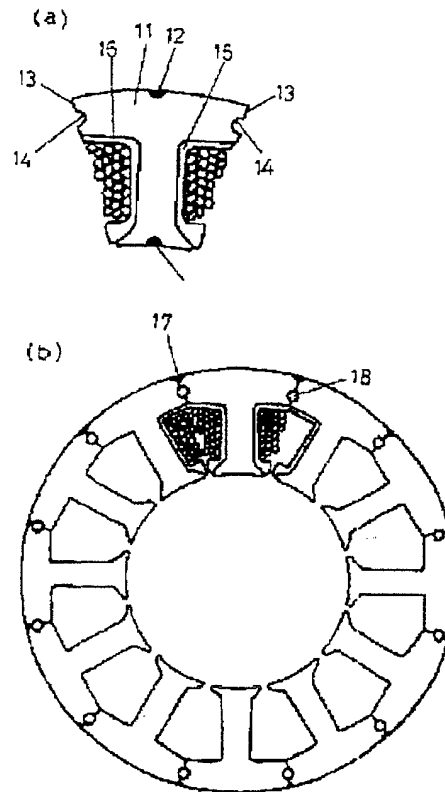
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TITLE : STATOR FOR ELECTRIC ROTATING MACHINE



ABSTRACT : PURPOSE: To produce a large core using a small stamping machine by arranging pins at the notches in a core piece to be laminated, laminating predetermined number of core pieces annularly and laser welding the outer peripheral end part of the laminate into an integrated structure.

CONSTITUTION: A laminate core 11 is provided with semicircular notches 14 in the split face 13 thereof and each pole tooth is punched by a small stamping machine. The cores are then laser welded 12 and laminated and an insulating part 15 is formed at the pole tooth part thus forming a winding part 16 of outer winding arranged at high density. Subsequently, predetermined number of core pieces 11 are arranged to form a circular circumference by inserting columnar pins 18 into the semicircular notches 14. Finally, the outer circumferential end part of the split face 13 is laser welded 12 in the direction of laminate to form a bonded part 17 thus obtaining an integral structure of a stator having required rigidity. This structure prevents the motor efficiency from lowering while reducing the size of the stamping machine by splitting the laminate core thus realizing significant enhancement of production efficiency.

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